

## AMENDMENTS TO THE CLAIMS

1. – 34. (CANCELED).

35. (NEW) A method of fireproofing an I-beam having a central web connected at each end to a flange, the method comprising:

attaching a pre-cast corner element to each end of the flanges to form a first pair of cavities and a second pair of cavities, the first pair of cavities each being defined by at least two of the pre-cast corner elements and the central web of the beam, the second pair of cavities each being defined by at least two of the pre-cast corner elements and one of the flanges; each pre-cast corner element including a first surface substantially parallel to the central web when the pre-cast corner element is attached to the flange, each pre-cast corner element including a second surface substantially parallel to the flange when the pre-cast corner element is attached to the flange; and

filling each of the first cavities with concrete such that the concrete is substantially flush with the first surfaces of the pre-cast corner elements; and

filling each of the second cavities with concrete such that the concrete is substantially flush with the second surfaces of the pre-cast corner elements.

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36. (NEW) The method according to claim 35, wherein the first and second cavities are filled by pouring the concrete into the cavities.

37. (NEW) The method according to claim 35, wherein the first and second cavities are filled by spraying the concrete into the cavities.

38. (NEW) The method according to claim 35, wherein the first and second cavities are filled by troweling the concrete into the cavities.

39. (NEW) The method according to claim 35, further comprising:

casting the pre-cast corner elements from concrete and allowing the concrete of the pre-cast corner elements to harden prior to attaching the pre-cast corner elements to the flanges.

40. (NEW) A method of fireproofing an I-beam having a central web connected at each end to a flange, the method comprising:

attaching a pre-cast corner element to each end of the flanges to form four cavities, a first two of the cavities each being defined by at least two of the pre-cast corner elements and the central web of the beam, a second two of the cavities each being defined by at least two of the pre-cast corner elements and one of the flanges;

pouring concrete into one of the cavities;

allowing the concrete poured into the one of the cavities to harden; and

rotating the beam after the concrete has hardened and prior to pouring concrete into additional cavities.

41. (NEW) The method according to claim 40, further comprising:

casting the pre-cast corner elements from concrete and allowing the concrete of the pre-cast corner elements to harden prior to attaching the pre-cast corner elements to the flanges.

42. (NEW) The method according to claim 40, further comprising:  
repeating the pouring, allowing to harden, and rotating for other of the cavities  
until all of the cavities contain concrete.

43. (NEW) The method according to claim 40, wherein:  
each pre-cast corner element includes a first surface substantially parallel to the  
central web when the pre-cast corner element is attached to the flange;  
each pre-cast corner element includes a second surface substantially parallel to the  
flange when the pre-cast corner element is attached to the flange;  
the first two of the cavities are filled such that the concrete is substantially flush  
with the first surfaces of the pre-cast corner elements; and  
the second two of the cavities are filled such that the concrete is substantially  
flush with the second surfaces of the pre-cast corner elements.

44. (NEW) A method of fireproofing a structural beam comprising:  
attaching a plurality of pre-cast corner elements to the beam to form a plurality of  
cavities, each cavity being defined by at least two of the pre-cast elements and a portion of the  
beam; and  
filling each cavity with concrete to substantially fill the cavity.

45. (NEW) The method according to claim 44, wherein the cavities are filled by pouring  
the concrete into the cavities.

46. (NEW) The method according to claim 44, wherein the cavities are filled by spraying the concrete into the cavities.

47. (NEW) The method according to claim 44, wherein the cavities are filled by troweling the concrete into the cavities.

48. (NEW) The method according to claim 44, further comprising:  
casting the pre-cast corner elements from concrete and allowing the concrete of the pre-cast corner elements to harden prior to attaching the pre-cast corner elements to the beam.

49. (NEW) The method according to claim 44, wherein the beam is an I-beam.

50. (NEW) A method of fireproofing a structural beam comprising:  
attaching a plurality of pre-cast corner elements to the beam to form a plurality of cavities, each cavity being defined by at least two of the pre-cast elements and a portion of the beam; and

pouring concrete into one of the cavities;  
allowing the concrete poured into the one of the cavities to harden; and  
rotating the beam after the concrete has hardened and prior to pouring concrete into another of the cavities.

51. (NEW) The method according to claim 50, further comprising:  
casting the pre-cast corner elements from concrete and allowing the concrete of  
the pre-cast corner elements to harden prior to attaching the pre-cast corner elements to the  
beam.
52. (NEW) The method according to claim 50, further comprising:  
repeating the pouring, allowing to harden, and rotating for other of the cavities  
until all of the cavities contain concrete.
53. (NEW) The method according to claim 50, wherein each cavity is substantially filled  
with concrete.
54. (NEW) The method according to claim 50, wherein the beam is an I-beam.